

REMARKS/ARGUMENTS

Favorable reconsideration of this application, as presently amended and in light of the following discussion is respectfully requested.

Claims 12-25 and 30-31 are pending in this application, Claims 12, 21, and 30 having been currently amended; and Claim 29 having been canceled without prejudice or disclaimer. Support for amended Claims 12, 21, and 30 can be found, for example, in the original claims, drawings, and specification as originally filed.¹ No new matter has been added.

In the outstanding Office Action, Claims 12-25, 29, and 31 were rejected under 35 U.S.C. § 103(a) as unpatentable over Larsson et. al. (U.S. Patent Publication No. 2004/0133289; hereinafter "Larsson"); and Claim 30 was rejected under 35 U.S.C. § 103(a) as unpatentable over Larsson in view of Breed (U.S. Patent Publication No. 2008/0216567).

In response to the rejection of Claims 12-25, 29, and 31 under 35 U.S.C. § 103(a) over Larsson, Applicant respectfully submits that amended independent Claim 12 recites novel features clearly not taught or rendered obvious by the applied reference.

Amended independent Claim 12 is directed to a method for diagnosing functional faults of a functional architecture including functions for performing a service in a motorized vehicle, the method including, *inter alia*:

... mapping, by said diagnostic device, said functions onto a hardware architecture composed of hardware components;

measuring, by said diagnostic device, a property of said automobile with at least one of said sensors so as to obtain raw data;

creating a first list of particular values based on said raw data and corresponding to functional faults of the sensors and actuators of said automobile;

creating a second list of particular values corresponding to functional states for said hardware components relative to a propagation of signals through said hardware architecture

¹ See page 1, lines 9-16 and page 14, lines 27-32 of the specification.

thereby indicating a state of propagation of information relating to said functional faults of said sensors and actuators across the functional architecture;

formulating a functional diagnosis of the service based on the first and second lists of particular values; and

recording the particular values and their propagation on a memory device.

Independent Claim 21 recites substantially similar features as independent Claim 12.

Thus, the arguments presented below with respect to independent Claim 12 are also applicable to independent Claim 21.

Larsson describes a method for diagnosing a flow system, but fails to teach or suggest a method for diagnosing functional faults of a functional architecture including functions for performing service in an automobile including an internal combustion engine. In fact, Larsson does not describe automobiles at all. Thus, Larsson also fails to teach or suggest “measuring, by said diagnostic device, a property of said automobile with at least one of said sensors so as to obtain raw data” and “creating a first list of particular values based on said raw data and corresponding to functional faults of the sensors and actuators of said automobile,” as recited in Applicant’s amended independent Claim 12.


Thus, Applicant respectfully submits that amended independent Claims 12 and 21 (and all claims depending thereon) patentably distinguish over Larsson.

In response to the rejection of Claim 30 under 35 U.S.C. § 103(a) as unpatentable over Larsson in view of Breed, Applicant notes that Claim 30 is dependent on Claim 12 and is thus believed to be patentable for at least the reasons discussed above. Further, Applicant respectfully submits that Breed fails to cure any of the above-noted deficiencies of Larsson.

Consequently, in view of the present amendment, and in light of the above discussion, the pending claims as presented herewith are believed to be in condition for formal allowance, and an early and favorable action to that effect is respectfully requested.

Respectfully submitted,

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